



ELAN SERIES

Professional Loud Speakers



- Thank you for purchasing the Studiomaster Professional ELAN SERIES Professional Loud Speakers.
- To ensure maximum performance and safety, please follow this instruction manual carefully.
- Please retain this manual for future reference.
- For any complaint, feedback or testimonials please contact our Distributor / dealer.

1. Warranty Information
2. Introduction
3. Standard Features
4. Application
5. Connection
6. Technical Specifications

1. Warranty Information

Unpacking

As part of our system of quality control, every Studiomaster Professional products is carefully inspected before leaving the factory to ensure flawless appearance. After unpacking, please inspect for any physical damage. In the event that damage has occurred, immediately notify your dealer

2. Introduction

The ELAN SERIES are a range of Multi-Purpose Loudspeakers designed for live music performance, Music Playback & Installs.

3. Standard Features

- Rugged Paint finish Enclosures.
- High power handling, high efficiency.
- Over load - protection circuitry ensures optimal HF driver protection.
- Heavy-Gauge, perforated metal speaker grille.
- Dual - Speakon / Jack Connector allows linking of additional loudspeakers.
- Integral ergonomic handles.

4. Application

- Main PA
- Night Clubs
- House of Worship.
- DJ applications.

5. CONNECTION

The Studiomaster Professional ELAN Series is equipped with high quality speakon connectors. Two connectors are installed in parallel allowing an additional speaker set to be installed.

The pin arrangement of speakon connector for full range:

1+ = In (+)

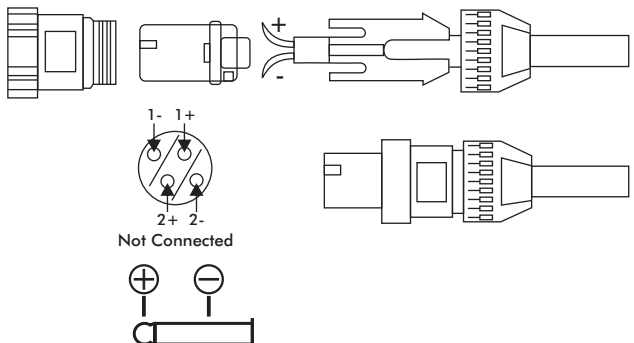
1- = In (-)

2+ = Not used

2- = Not used

Speakon Wiring Guide

1/4"(6.35mm) Jack Wiring Guide



Note:

Each speaker connected in parallel increases the load on the amplifier and can add up to a total load that may exceed the amplifier's capabilities, leading to possible damage.

- Two 8 Ω loud speakers in parallel make 4 Ω total load.
- Four 8 Ω parallel connected loud speakers make a total load of 2 Ω , which is too low for many amplifiers?

APPLICATION GUIDELINES:**1) Wire size:**

Please use cables of the correct guage in order to obtain optimum performance from your speaker system. We recommend that your cable should be no smaller than 14 guage. For cables of length 100-250ft use cables no smaller than 12 guage.

2) Matching amplifier

To get the maximum performance from your ELAN Series Loudspeaker, Audioplus recommends the following guidelines.

3) Carefully Monitored Application:

For carefully monitored applications, where the peak transient capability must be maintained, the amplifier should be capable of delivering twice continuous power rating of the speaker. As an example, a speaker rated at 600 continuous watts can be safely driven by an amplifier capable of 1200 watts power output.

4) Routine application:

For routine application where high continuous, but non-distorted output is likely to encountered, the amplifier power rating should match the continuous power rating of the speaker.

To protect you system

- a) Use adequate clean power to drive the system to required levels. Avoid clipping or overload your power amplifier.
- b) Recognize and respect the known limits of your equipment.
- c) Consider adding a peak limiter, such as the compressor/limiter to your system to electronically limit potentially damping
- d) To get the best performance from a loudspeaker, the amplifier should be rated higher in terms of watts. It wouldn't be unreasonable to connect a 200 W amplifier to a 100 W speaker, and it won't blow the drive units unless you push the level too high.
- e) Use an electronic crossover to enhance the overall output of the system.

6. Specifications:

Model	ELAN 155	ELAN 181
Type	2-way Speaker	Sub-Woofer
Power Output (RMS / Peak) Watts	950 / 1900	800 / 1600
Frequency Response (Hz)	40-20000	40-150
Impedance (Ω)	4	8
Sensitivity (1w @1m) dB	98.1	98
Max SPL (dB)	126	126.5
LF Driver Size	2 x15" Woofer 3" Voice Coil	1 x18" Woofer 4" Voice Coil
HF Driver Size	1" Exit, 1.75" Voice Coil	-
Input Connector	2 x Speakon 2 x 1/4" jack	2 x Speakon 2 x 1/4" jack
Dimension (WxDxH) mm	495 x 465 x 1120	585 x 565 x 665
Net Weight (Kgs.)	46.5	46

* Design and specification are subject to change without notice.

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